

DEGREE PROGRAM TITLE: MECHANICAL AND ELECTRICAL TECHNOLOGY

AFSC(S): 2M0X3, Missile and Space Facilities

3E0X1, Electrical Systems

3E0X2, Electrical Power and Production

3E1X1, Heating, Ventilation, Air Conditioning and Refrigeration

3E4X1, Water and Fuel Systems Maintenance

PROGRAM GOAL: The goal of the **CCAF Mechanical and Electrical Technology Degree Program** is to prepare graduates to install, maintain and inspect operational systems in a variety of maintenance occupations. This program provides graduates a solid foundation of knowledge and wide range of general and specific skills focused on the practice of electronic and dispensing system operations. The program is designed to develop effective leaders of our most valued resource—our people—and cultivate managers of complex systems, processes, and technologies essential to the Air Force and our Nation.

LEARNING OUTCOMES: Upon completion of this program students will be able to:

1. Diagnose malfunctions and repair mechanical, electrical and electronic circuitry using visual and auditory senses, test equipment, systems knowledge and technical publications.
2. Operate high and low voltage switches, and other controls on switchgear and distribution panels.
3. Maintain electrical, hydraulic, pneumatic systems, and other electronic components.
4. Ensure compliance with safety and environmental regulations for various hazardous materials.
5. Solve complex maintenance problems by studying layout drawings, wiring and schematic drawings, and by analyzing construction and operating characteristics.
6. Troubleshoot malfunctions using technical orders, manufacturers' handbooks, local procedures, codes and directives.
7. Inspect and inventory equipment and project material for serviceability.